Subgrant Project Application

Application Title: Flood County/Mechanical Room

Subgrant Applicant: Office of Emergency Management, Flood County Application Number: PDMC-PJ-04-BL-2009-040

Application Year: 2009
Grant Type: Project Application
Address: 333 63rd Street, Flood, BL 33333

Applicant Inform	mation
Name of Applicant State Congressional District	Flood County on behalf of Children's Hospital Bliss (BL) 80
Type of Applicant	Private Non-Profit
Legal status, function, and facilities owned:	Flood County is the largest metropolitan area in the State. The County is governed by an Executive Mayor and 10 commissioners elected from single member districts. Daily operations are overseen by an appointed County Manager. In addition to a large unincorporated district, there are 20 municipalities. Variety Children's Hospital doing business as Flood Children's Hospital was established to provide health care exclusively to children within the definition of Section 501(c)(3) of the Internal Revenue Code of 1951, as now in effect or as may hereafter be amended, or the corresponding section of any future tax code. Its function is to provide excellent family centered health care to children in an academic environment that meets or exceeds the expectation of those served and educated as well as to foster collaboration in the community to improve the overall health status of children. Flood Children's Hospital operates a main campus in south central Flood County and three ambulatory care centers throughout south of the State.
State Tax Number:	05-0000000
Federal Tax Number:	05-000000
Other type name:	
Federal Employer Identification Number(EIN). If Indian Tribe, this is Tribal Identification Number.	05-0000000
What is your DUNS Number?	444111333
Are you the application preparer?	No
Is the application preparer the Point of Contact?	No
Is application subject to review by Executive Order 12372 Process?	Yes. From 12-14-2007
Is the applicant delinquent on any Federal debt?	No

Explanation:	
Community:	Flood (County) (99888)
Is this a small, impoverished community? (Note: For PDM-C grants, a response to this question is required.)	No

Contact Information			
Point of Contact Information			
Title	Mr.		
First Name	Frank		
Middle Initial			
Last Name	Sinatra		
Title	Emergency Management Coordinator		
Agency/Organization	Office of Emergency Management, Flood County		
Address 1	333 63 rd Street		
Address 2			
City	Flood		
State	BL		
ZIP	33333		
Phone	333-333-3333 Ext.		
Fax	333-333-3332		
Email	frank.sinatra@Flood.gov		

Alternate Point of Contact Information			
Title	Mr.		
First Name	Robert		
Middle Initial			
Last Name	Redford		
Title	Vice President		
Agency/Organization	Flood Children's Hospital		
Address 1	111 52nd Avenue		
Address 2			
City	Flood		
State	BL		
ZIP	33333		
Phone	333-333-4444 Ext.		
Fax	333-333-4445		
Email	robert.redford@FCH.com		

Community Information							
Please provide the name of each community that will benefit from this mitigation activity.							
State	County Code	Community Name	CID Number	CRS Community	CRS Rating	State Legislative District	US Congressional District
BL	1234567	FLOOD COUNTY*	1234567	Υ	5	1234567	80

Enter Community Profile information below.

Flood Children's Hospital operates an active main campus in a south central region of unincorporated Flood County and three ambulatory care centers across the southern part of the State. The area surrounding the main campus is residential in nature comprised predominantly of single family homes. Given its close proximity to the historic area the architectural style is largely Mediterranean. This is characterized by a high volume of barrel tile roof assemblies, the significance of which can result as projectiles in high velocity wind scenarios. A neighborhood summary is attached with specific demographic information for the immediate region. Flood is the most populated county in the State and the 10th most populated in the nation. It is located in the southeastern part of the state. The county includes twenty (20) municipal governments plus a large "Unincorporated Municipal Services Area" (UMSA). In addition to storms, the area is also threatened by the potential for widespread damages due to tidal surges, tornadoes and lightening during severe weather events. Over the last one hundred years, twenty (20) hurricanes and tropical storms have approached within 100 miles of Flood County.

Comments

Attached please find the following: (1,2) 2005 US Census Data for Flood County (3) Census Fact Sheet (4) FCH Neighborhood Summaries (5) FCH IRS 501 c 3 designation (6) State Clearinghouse

Attachments

Census Fact Sheet.pdf
Census Fact Sheet Flood County.pdf
FCH Neighborhood Summaries.pdf
2005 Census Data for Flood County.pdf
IrsDeterminationLetter.pdf
State Clearinghouse- Hardening & Code Plus.pdf

State	BL
Community Name	FLOOD COUNTY*
County Name	FLOOD COUNTY
County Code	
City Code	123456
FIPS Code	059
CID Number	123456
CRS Community	Υ
CRS Rating	2
State Legislative District	123456
US Congressional District	80
FIRM or FHBM available?	Yes
Community Status	PARTICIPATING
Community participates in NFIP?	Yes
Date entered in NFIP	08-14-1972
Date of most recent Community Assistance Visit	06-18-2003

Mitigation Plan Information

Is the entity that will benefit from the proposed activity covered by a current FEMA-approved multihazard mitigation plan in compliance with 44 CFR Part 201?

Yes

If Yes, please answer the following:

What is the name of the plan?

Flood County LMS

What is the type of plan?

Local Multi-Jurisdictional Multihazard Mitigation Plan

When was the current multihazard mitigation plan approved by FEMA?

11-20-2005

Describe how the proposed activity relates to or is consistent with the FEMA-approved mitigation plan.

The mitigation project outlined in this application is fully coordinated with the Flood County Local Mitigation Strategy (LMS) and can be identified within the framework of the LMS Master Plan as Flood Children's Hospital Project 2 – Hurricane Protection for the Mechanical Room (see Attached FCH LMS Project List). The proposed initiative involves the additional fortification of the identified facility to exceed current building code requirements. Once completed, this will serve to protect the welfare of young patients and the staff that serve them as well as valuable medical equipment and records. Flood Children's Hospital (FCH) is the only licensed specialty hospital dedicated to the exclusive care of children and it is the only free-standing pediatric level one trauma center in the state. To ensure ongoing coordination and awareness of the latest mitigation activities, FCH is an active member of local LMS meetings and events. As a licensed Medical Management Facility, FCH serves as an emergency evacuation shelter and general safe place for all children in the community, particularly during times of extreme weather events. Its service area extends over all of the State making it a unique and invaluable resource. Given its precious occupants, high degree of medical specialization, valuable building & contents and general significance to the area. FCH carefully coordinates its emergency and mitigation plans with Flood County and by extension, the State and FEMA.

If No or Not Known, please answer the following:

Does the entity have any other mitigation plans adopted?

No

If Yes, please provide the following information.

Plan Name Plan Type Date Adopted Attachment

Does the State/Tribe in which the entity is located have a current FEMA-approved mitigation plan in compliance with 44 CFR Part 201?

Yes

If Yes, please answer the following:

What is the name of the plan? State Enchanced Harzard Mitigation Plan

What is the type of plan? Enhanced State Multi-hazard Mitigation Plan

When was the current multihazard mitigation plan approved by FEMA?

10-09-2007

Describe how the proposed activity relates to or is consistent with the State/Tribe's FEMA-approved mitigation plan.

The project outlined in this Flood Children's Hospital submission relates to the State's enhanced mitigation plan in that a unique and important medical facility dedicated exclusively to children will be better protected and safeguarded against the potential for damage due to a hurricane or other extreme weather event. With operations intact, the facility can offer aid and assistance in times of extreme emergency, which is exactly when it will be most needed. By strengthening the capabilities of the state's critical infrastructure, the potential for harm is reduced, which will afford better distribution of resources in times of emergency. Given the history of the County with Hurricanes, the value and benefit of close synchronization between critical entities, cities, counties and the state has proven necessary and ultimately successful for a long time. Current lessons learned further illustrate the importance of enhanced mitigation measures and improved coordination in emergency management among all sectors and levels of government. Flood Children's Hospital is proud to submit this mitigation project which will serve to further bolster the State's newly designated enhanced plan of Section 322 of the Robert T. Stafford Disaster Relief and Emergency Assistance Act, enacted under the Disaster Mitigation Act of 2000. In the end, the proposed project will ensure minimal damage and disruption to patients and property which will in turn afford an invaluable resource to continue operations during and after times of extreme weather emergencies.

If you would like to make any comments, please enter them below.

Attached please find the following: (1) FCH Signatory Authority Policy (2) MCH Signatory Authority Letter (3) Flood County Local Mitigation Strategy Letter of Support (4) FEMA Approval of DC LMS (5) LMS Project List Dec 2006

To attach documents, click the Attachments button below.

Flood County Local Mitigation Strategy Letter of Support.pdf FCH Signatory Authority 2008.jpg Signatory Authority Policy.pdf FEMA Approval of DC LMS.pdf LMS 12 2007.doc

Mitigation Activity Information

What type of activity are you proposing?

205.7 - Retrofitting Private Structures - Wind

If you selected Other or Miscellaneous, above, please specify:

Title of your proposed activity:

Flood County/FCH Mechanical Room

Are you doing construction in this project?

Yes

If you would like to make any comments, please enter them below.

Flood Children's Hospital has made tremendous progress in fortifying its overall facilities. The first three (3) floors of the main patient care buildings underwent a pioneering and sophisticated encapsulation process a few years back that elevated their structural integrity to exceed current building code up to a strong Category 4 Hurricane. In addition, several buildings have or are in process of obtaining hurricane shutters and other protective measures. The recent active

storm seasons have offered many lessons learned. While tremendous progress has been made, there remains much to be accomplished. To further strengthen the main Children's Hospital campus, the project outlined in this submission proposes to reinforce the structural envelope of the Main Patient Building's Mechanical Room to withstand Category 4 hurricane wind gusts and pressure fluctuations, as well as large and small wind borne missiles. The Mechanical Room currently houses all the building's major mechanical and electrical systems including air conditioning, dehumidifiers, filtration and associated hardware. This area was not hardened back when FCH completed its original encapsulation project, yet the institution cannot properly function without its support & function. The Mechanical Room requires hardening to provide for the uninterrupted care of patients within the Main Patient Building during times of crisis during and immediately following a hurricane or other severe weather disturbance. The proposed mitigation project encompasses the hardening of existing structure through the addition of structural steel, adding additional requirements for a fully adhered roofing system, removing existing vulnerable structures and fortifying exterior walls and mechanical louvers to above current building code. The proposed project will elevate the structural integrity of the building up to a Category 4 Hurricane and furthers campus consistencies inherent in the majority of other buildings on the property. This collective strength will result in less potential damage overall and, in concert; will afford even greater protection to the institution's fragile occupants and valuable property. All of the projects, including the one outlined in this proposal, work collectively with each other and with the community at large to ensure the safety and security of patients, personnel and property.

Attachments:

Problem Description

Please describe the problem to be mitigated. Include the geographic area in your description.

Over the last three years alone, four storms have directly impacted the state. Over the last one hundred years, twenty (20) hurricanes and tropical storms have approached within 100 miles of the County. In addition, the State routinely experiences other severe weather occurrences such as tropical thunderstorms, tornadoes, strong trade winds and persistent lightning. Flood Children's Hospital (FCH) has many pressing reasons to ensure it remain operational 24 hours per day and 7 days per week. The delicate condition and vulnerable age of its patients, its dedicated and hardworking staff, its status as the only licensed specialty hospital dedicated to the exclusive care of children and its designation as the only free-standing pediatric level one trauma center in the state are but a few motives. The fact is that FCH must always remain fully operational and available to the community during and after severe storms. Currently, the Mechanical Room, which houses HVAC, filtration, electrical, and mechanical systems for the Main Patient Building does not meet current building code, specifically American Society of Civil Engineers No. 7 (ASCE 7), which maintains a required wind speed capacity to withstand a three (3) second gust of 146 miles per hour or a Category 3 hurricane. ASCE 7, also, includes a factor of 15% which is applied to hospitals with emergency rooms. Given the significance to the local community and the vulnerable nature of the establishment, it would be exceedingly beneficial to reinforce the structure beyond the minimum required by code. Specifically the goal is to achieve protection up to a high Category 4 hurricane which would ensure the safety and strength of the institution in the face of extreme wind conditions brought on by hurricanes and other severe weather circumstances.

Enter the Latitude and Longitude coordinates for the project area.

Latitude: 98.74512 Longitude: -20.267315

Attachments:

FCH Firmette.pdf

FC Flood Designation.pdf

Hazard Information

Select hazards to be mitigated

Coastal Storm, Hurricane, Severe Storm(s), Tornado, Windstorms

If other hazards, please specify

If you would like to make any comments, please enter them below.

The location of the County in the southeastern most part of the state additionally increases the hazard risk for the area.

In fact, all of the County, particularly the unincorporated region has a hazard vulnerability that is high in frequency and catastrophic in severity and potential loss for hurricane wind & surge. In addition, the area is equally under constant threat from the occurrence of tornadoes, thunderstorms and lightening. The threats brought on by high winds are now and will likely remain to be a constant and must be addressed proactively. Flood Children's Hospital has a proud history of aggressively mitigating against the possibility for storm related damage. The hardening project outlined in this proposal continues this tradition and recommends the strengthening of the Mechanical Room, to exceed code and by doing so, to set a shining fortified example for the community and the nation. Attached (on the previous page) please find the following: (1) FEMA FIRMette (2) Flood County Flood Designation

Attachments:

FIRM Information			
Is the project located within a hazard area:	Other identified high hazard area		
If other identified high hazard area, please specify:	Hurricane/storm surge		
Is there a Flood Insurance Rate Map (FIRM) or Flood Hazard Boundary Map (FHBM) available for your project area?	Yes		
Enter FIRM Panel Number:	12362A1280 K		
Is the project site marked on the map?	Electronic map attached		
Select Flood Zone Designation	Area of minimal flood hazards (C, X)		

Scope of Work

What are the goals and objectives of this activity?

The overall goal of the project outlined in this proposal is to structurally fortify the Mechanical Room at the main campus of the Children's Hospital (FCH) to better withstand hurricanes and other wind related events. The proposed initiative aims to minimize the impact of high winds including positive and negative wind pressures and impact from debris to damage the exterior (walls, windows, doors and roof) of the structure and surrounding equipment. If infiltration to any of these areas were to occur, significant disruption and injury would be possible. As the building where the Mechanical Room resides is an inpatient facility and actively maintains a fragile pediatric patient population, fortifying its structural integrity is of paramount importance. The Mechanical Room is dedicated to the housing of, in addition to other things, HVAC, air filtration, electrical and mechanical systems any of which, if interrupted, could result in a disruption of patient care. The ultimate goal of the initiative outlined is to improve the safety of the institution and to ensure continuous operational capacity of the building at all times, but particularly in the event of a high category hurricane or other extreme weather event. This project was prioritized given its timeliness and vital significance to FCH. There are several objectives to the proposed project. One objective is to determine the best solutions to addressing the building's vulnerable areas, such as the selection of the wall reinforcements, roofing, doors and other components. This proposed initiative was derived from several sources including professional vendor, architectural and engineering reviews, as well as a factoring of issues unique to FCH. In addition, another objective is to ensure a clear plan for the project's implementation to ensure timeliness, cost effectiveness and grant compliance. To guarantee the project is successful, a project manager has been written into the project's framework. Finally, the last and perhaps most significant objective, is to secure financial support to make the initiative a reality. As the proposed project is presently not budgeted, FCH is respectfully requesting FEMA funding to realize the goals and objectives of the initiative outlined.

Briefly describe the need for this activity.

Flood Children's Hospital (FCH) currently has a Mechanical Room that is below current building codes specified by American Society of Civil Engineers No. 7 (ASCE 7), which recommends the ability to withstand wind pressure fluctuations consistent with three second gusts of 146 miles per hour. However, given the critical function and vulnerable nature of the patients within, FCH desires to harden the building to Category 4 speeds or a three second gust speed of 178 miles-per-hour. The proposed mitigation project encompasses hardening of the exterior walls, doors and roofing

assemblies of the structure to exceed code and will enhance the structural integrity. The Mechanical Room currently houses essential support systems for a vital children's inpatient area and was not hardened back when FCH completed its original encapsulation project. Yet the institution cannot properly function without its support & operability. Given the significance to the local community and the vulnerable nature of the establishment, it would be a prudent and sound investment to harden the structure's envelope beyond the minimum required by code. The proposed hardening project furthers campus consistencies inherent in the majority of other buildings on the grounds. It is also in alliance with a FCH Hurricane Risk Analysis completed in 2000 (see attached) which served as the basis for the main inpatient area encapsulation project (see attached FEMA press release). This collective strength will result in less potential damage overall and, in concert; will afford even greater protection to ensure the ultimate safety and security of patients, personnel and property. The obtainment of FEMA Pre Disaster Mitigation grant funding is fundamental to ensuring this important facility be constructed to the highest and safest level of protection possible. FCH was originally established in 1949. The facility is located in the south central part of the County and is situated in a residential neighborhood (Attachments - Map of Unincorporated Flood County with FCH indicated). Its location makes it vulnerable to storm related damages as it is the highest building in the area with three stories devoted to patient care (Attachments - Arial Map of FCH). FCH is equipped with a 24,000 pound landing capacity helipad, a medical staff of more than 650 physicians and over 2,400 employees (Attachments – FCH Campus Map). It draws in children for highly specialized procedures from across the State and around the world and generally operates at close to full capacity. In the event of a high category storm, FCH would shelter-in-place given limited time afforded, lack of available comparable space and the tremendous logistics required. In fact, upon issuance of a hurricane warning, occupancy levels often surge. FCH serves as a "Medical Management Facility (MMF)" evacuation shelter that accepts children requiring special medical attention and/or electrical support services such as oxygen & dialysis equipment (Attachments – FCH MMF Agreement). Given its vital significance to the community, FCH operates 24 hours a day 7 days per week including during any impending hurricane. In addition, it stands prepared to assist in the aftermath in the event of catastrophic damages. To ensure that FCH remains safe, secure and operational, during and after a high category hurricane, specific vulnerabilities on the main campus must be strengthened and reinforced to diminish the potential for storm damage.

Describe the problems this activity will address.

The proposed project seeks to exceed current required building code in the fortification of the Mechanical Room on the Children's Hospital (FCH) main campus. Specifically, the proposed project aims to structurally harden the exterior of the facility by addressing areas vulnerable to storm related damages such as: exterior walls, roof, vulnerable exterior doors, windows, and louvers. Ultimately, the greatest problem addressed involves affording greater protection to children during times of emergency when they themselves are at their most vulnerable. By increasing the structural fortification of this facility it will ensure that patients, personnel and property are safeguarded and secure during storms and that the hospital is operationally functional after the fact to assist the entire community. In addition, the assurance that the institution is ready and able to serve the community at large in the aftermath of a catastrophic wind occurrence is also of significant concern. By hardening this important inpatient structure it will afford a significantly higher level of protection than that required by current building code. This is a prudent investment for the future and will eliminate the need at a later date to return to address the building's structural mediocrity. FCH has a proud tradition of proactively fortifying its facilities to better withstand hurricanes and high wind scenarios. The damages that resulted in the southern part of the County as a result of strong Hurricanes served as a catalyst and propelled the institution towards adopting stronger measures to better protect its precious patient population and staff as well as valuable property and equipment. FCH continues to strategically address its overall fortification by prioritizing mitigation activities so that structures remain intact, essential services are maintained and clinical requirements fulfilled.

Describe the methodology for implementing this activity.

Flood Children's Hospital is proposing to provide enhanced wind protection for the Mechanical Room by designing and specifying building methods and components that surpass the minimum requirements outlined in the current the State's Building Code. The project was studied and specified by leading design experts with the full support of engineers and architects to ensure the best possible proposed solution. Hardening the design and construction of the building's envelope to exceed the minimums mandated in present code will require the additional fortification in the exterior walls, roofing system, louvers and doors. All specified upgrades will meet wind requirements of the Building Code up to a Category 4 Hurricane. All installations will be done in strict compliance with the State's Building Code or the County specifications. The Mechanical Room, at present, does not meet applicable current County's building code requirements and requires additional fortification to do so. All specified upgrades will meet wind requirements up to a Category 4 Hurricane. The project will encompass the following aspects: All existing vulnerable exterior wall structures that are unable to be adequately strengthened will be replaced by fortified versions. Specifically the exterior wall will be constructed of Tube Steel with fourteen gauge (14 ga) studs, plywood, corrugated metal lag bolted to the tube steel, and mesh with a stucco exterior. The use of reinforcing structural steel specifically implemented to support mechanical louvers and necessitating complete removal of existing, then reinforced, louver systems. Existing louvers will be

removed; openings fortified with tube steel, and re-installed to meet higher wind pressures. Reinforcing tube steel will be utilized for structural reinforcement at predetermined key intervals for exterior walls and structural bracing. The existing roofing system will be augmented to meet the additional requirements for a fully adhered roofing system over lightweight insulated concrete. Further, existing vulnerable doors will be replaced and refitted with fortified exterior hollow metal doors and frames which meet Category four (4) construction standards. In examining the different options obtainable, limited alternatives were seemingly available, and none were found to offer the high level of protection or long term durability as specified in the proposed project.

If you would like to make any comments, please enter them below.

Attached please find the following: (1) Consultants Wind Analysis (2) Fully Adhered roofing Product Specifications (3) FCH MMF Agreement (4) FCH Main Campus Map (5) County map with FCH marked (6) Aerial map of FCH campus (7) NOA fully adhered roofing system (8) FEMA Best Practices for Encapsulation projects (9-24) Pictures of structures, existing damage, and directional

Attachments:

Consultants FCH Wind Analysis.doc Fully Adhered Product Spec.pdf MMF Agreement Memo.pdf FCH Campus Map.pdf County Map with FCH marked.pdf FCH Aerial Map.pdf NOA Fully Adhered over concrete.pdf Interior Electrical JBox Detail.jpg South Wall Exterior.jpg Typical Wall Detail.jpg Typical Wall deterioration.jpg FEMA Best Practices - Encapsulation.doc Along North Wall Ext.jpg East Wall Exterior.jpg East.JPG Interior of wall.JPG Louvers - East.JPG North 1.JPG North 2.JPG Southwest.JPG West 1.JPG West 2.JPG West 3.JPG

Enter Work Schedule

Description Of Task	Starting Point	Unit Of Time	Duration	Unit Of Time	Work Complete By
Formal process to accept award & execute contract with FEMA	1	DAYS	30	DAYS	Secondary Point of Contact, Faculty Managers and Accounting Personnel
Solicit proposal, negotiate contract & issue purchase order with vendor	30	DAYS	60	DAYS	Secondary Point of Contact, Engineering Managers, and Accounting Personnel
Design phase	90	DAYS	100	DAYS	Contracted design professional guided by FCH VP & Director of Architectural Services
Permitting process	190	DAYS	180	DAYS	General Contractor assisted by FCH Project Team
Mechanical Room structural hardening and final inspections	370	DAYS	730	DAYS	General Contractor & construction team
Estimate the total duration of	the proposed	d activity:	1090	DAYS	

Retrofitting Private Structures - Wind (205.7)						
Property Owner's Name	Damaged Property Address	City	State	ZIP	Repetitive Loss	Action
Flood Children's Hospital	333 63 rd Street	Flood	BL	33333	No	View Details

Retrofitting Private Structures - Wind (205.7)

Damaged Property Address:			
Address line 1	333 63 rd Street		
Address line 2			
City	Flood		
County	Flood		
State	BL		
ZIP	33333		
Owner Information:			
First Name	Children's Hospital		
Middle Name			
Last Name	Flood Children's Hospital		
Phone	Home Cell	Office 333-333-3331 Ext. Other	
	333-333-3333	333-333-3335 Ext.	
Owner's Mailing Address:			
Address line 1	333 63 rd Street		
Address line 2			
Other (PO Box, Route, etc)			
City	Flood		
State	BL		
ZIP	33333		
Does this property have other co-owners or holders of recorded interest?	No		

Property Information:	
Age of structure (year built)	2006
SHPO Review	Not Applicable
SHPO Reviewed Date	
Structure Type	Non-residential - Public
Foundation type	

Basement	No
Type of Residence	Not Applicable
Parcel Number	0432
Property Tax Identification Number	33-4321-001-0123
<u>Latitude</u>	98.74512
Longitude	-20.267315
Does this property have an NFIP Policy Number?	Yes
Policy Number	ABC 1234567 08
Insurance Policy Provider	Hazard Insurance Co.
Select hazard to be mitigated:	Coastal Storm, Hurricane, Severe Storm(s), Tornado, Windstorms
Damage Category	Not Applicable
Pre-Event Fair Market Value	\$75,000,000.00
Benefit Cost Analysis Performed	Yes
Benefit Cost Ratio	7.85
Repetitive Loss Structure	No
Repetitive Loss Number	
Number of Losses	
Legal Description	

Property Information II:	
* Primary Property Action	Wind Retrofit
Secondary Property Actions	Safe Room/Wind Shelter
Flood Hazard	
Base Flood Elevation	10.0 feet
First Floor Elevation	13.0 feet
Number of feet the lowest floor elevation of the structure is being raised above Base Flood Elevation (only applicable when Property Action is Elevation)	feet
Flood Source	
Property located within	Hurricane/surge
Is there a <u>Flood Insurance Rate Map (FIRM)</u> available for your project area?	Yes
Is the property site marked on the map?	Yes
* Flood Zone Designation	Area of minimal flood hazards (C, X)

FIRM Information (Flood Maps)

Community Name	CID Number	FIRM Panel Number	Effective Date
FLOOD COUNTY*	1234567	12362A1280 K	03-02-1996

The location of the County in the southeastern most part of the state additionally increases the hazard risk for the area given the northwesterly flow. In fact, all of the County, particularly the unincorporated region has a hazard vulnerability that is high in frequency and catastrophic in severity and potential loss for hurricane wind & surge. In addition, the area is equally under constant threat from the occurrence of tornadoes, thunderstorms and lightening. The threats brought on by high winds are now and will likely remain to be a constant and must be addressed proactively. Flood Children's Hospital has a proud history of aggressively mitigating against the possibility for storm related damage. The hardening project outlined in this proposal continues this tradition and recommends the strengthening of the Mechanical Room, to exceed code and by doing so, to set a shining fortified example for the community and the nation. Attached please find the following: (1) FEMA FIRMette (2) County Flood Designation Attachments

Name	Date Attached	
FCH Firmette.pdf	12-20-2005	
FDC Flood Designation.pdf	12-20-2005	

Decision Making Process

Describe the process you used to decide that this project is the best solution to the problem.

FCH is actively engaged in strengthening its facilities to ensure the maximum safety for its patients and staff as well as to secure valuable equipment and property. System-wide mitigation assessments are conducted on an ongoing basis and are subsequently woven into the framework of the County LMS twice per year. To guarantee that the most prudent and cost effective activities are properly identified and prioritized, a wide range of experts and specialists are called upon to provide the most up-to-date insights and industry information. Specifically, the proposed project seeks to structurally enhance the existing envelope of the Mechanical Room on the main campus of FCH to exceed current building code. The decision-making process utilized to arrive at the proposed solutions involved an in-depth analysis among hospital administration, leading design experts including the full support of engineers and architects. FEMA design criteria as outlined in several guidebooks such as 543 and 549 were consulted and factored into the equation. In addition, damages incurred in past storms institutionally, regionally and nationally were carefully examined and considered. Alternatives were researched and scrutinized to determine their value, viability and practicality.

Explain why this project is the best alternative.

To fortify the Mechanical Room to exceed code required a comprehensive approach to correct identified potential vulnerabilities inherent in building the facility to meet the minimum specified by current code. By targeting the latent weak elements of the structure, namely the walls, doors, and louvers in tandem, the facility shall emerge storm worthy and fortified enough to ensure maximum protection for the critical services planned to function uninterrupted inside. For the overall proposed project, extensive research was conducted to determine the optimal and most fortified construction approach. To illustrate this, for example, the overall erection of the walls could have been proposed with glass reinforced concrete panels (GRCP), which have been used to fortify other patient care buildings on the hospital's main campus. While easier to assemble from a labor standpoint, the GRCP are expensive and therefore, have a cost differential that is too great to be justified. Given the significance of the intended function of the facility, the strengthened construction choice demanded the best and most secure option possible, which after careful analysis proved to be total increased fortification at every level of assembly with filled and rebar reinforced concrete block emerging as the best option.

C	O	m	m	e	nt	s.
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Attachments:

205.7 - Retrofitting Private Structures - Wind				Federal Share	e: \$ 603,023.36
Item Name	Cost Classification	Unit Quantity	Unit of Measure	Unit Cost (\$)	Cost Estimate (\$)
Steel at support louvers	Construction And Project Improvement	53.00	Each	\$ 1,250.00	\$ 66,250.00
Roofing system - fully adhered	Construction And Project Improvement	22,000.00	Square Foot	\$ 4.00	\$ 88,000.00
Exterior wall system	Construction And Project Improvement	11,868.00	Square Foot	\$ 19.00	\$ 225,492.00
Insurance	Administrative Expense	1.00	Lump Sum	\$ 9,310.51	\$ 9,310.51
Fee	Architectural Engineering Basic Fees	1.00	Lump Sum	\$ 43,530.21	\$ 43,530.21
Bond	Administrative Expense	1.00	Lump Sum	\$ 9,997.44	\$ 9,997.44
Tube steel for structural reinforcement	Construction And Project Improvement	1.00	Lump Sum	\$ 166,750.00	\$ 166,750.00
Permit Fees	Project Inspection Fees	1.00	Lump Sum	\$ 10,000.00	\$ 10,000.00
Material Removal and Disposal	Construction And Project Improvement	100.00	Each	\$ 425.00	\$ 42,500.00
Paint	Construction And Project Improvement	11,868.00	Square Foot	\$ 0.75	\$ 8,901.00
Demolition of vulnerable sections of exterior wall	Construction And Project Improvement	1.00	Lump Sum	\$ 40,000.00	\$ 40,000.00
Mechanical Louvers	Administrative Expense	53.00	Each	\$ 1,100.00	\$ 58,300.00
Project Development Fee	Administrative Expense	1.00	Lump Sum	\$ 25,000.00	\$ 25,000.00
Upgrade exterior hollow metal doors	Construction And Project Improvement	5.00	Each	\$ 2,000.00	\$ 10,000.00
				Total Cost	\$ 804,031.16

Total Project Cost Estimate: \$804,031.16

Match Sources				
Activity Cost Estimate	\$ 804,031.16			
Federal Share Percentage	74.99999876%			
Non-Federal Share Percentage	25.00000124%			
	Dollars	Percentage		
Proposed Federal Share	\$ 603,023.36	74.99999876%		
Proposed Non-Federal Share	\$ 201,007.80	25.00000124%		

	Matching I	Funds		
Source Agency	Name of	Fundina Type	Amount (\$)	Action

	Source Agency			
Local Agency Funding	Flood Children's Hospital	Administration	\$ 201,007.80	View Details
		Grand Total	\$ 201,007.80	
	If you would like to make any or	warmanta wlassa antar than	a halaw.	

If you would like to make any comments, please enter them below.

Attached please find the following: (1)FCH General Contractor Cost Estimate (2) Cost Match Agreement (3) Project Development Fee Memo

Attachments

Mechanical Room Cost Estimate.xls
Project Development Fee Acknowledgement.doc
Mechanical Cost Match.pdf

Funding Source	Local Agency Funding
Name of Funding Source	Flood Children's Hospital
Funding Type	Administration
Amount	\$ 201,007.80
Date of availability	
Funds commitment letter date	
Attachment (funds commitment letter)	Mechanical Cost Match.pdf

Cost Effectiveness Information

Attach the Benefit Cost Analysis (BCA), if completed for this project

Mechanical Hardening.XLS

What is the source and type of the problem?

Hurricanes, tropical storms, tornadoes, storm related tidal surges and other extreme weather events that may result in severe damage to the institution's pediatric patient population, staff and property.

How frequent is the event?

Hurricanes are unavoidable for most residents. The state has had five disaster declarations in the past four years alone. The State has been affected by several storms, three of which directly passed over Flood County. In 2004, some storms also caused widespread damages within the state. While the prediction of the frequency of future storms is based in science, it still remains speculation. However, history has shown that the propensity for storm activity is high and is anticipated to remain so for the foreseeable future. In fact, over the last one hundred years, twenty (20) hurricanes and tropical storms have approached within 100 miles of the County. While hurricanes may have just recently recaptured the nation's attention, there are other severe weather concerns such as sudden tornadoes, tropical thunderstorms, and intense prevailing trade winds.

How severe is the damage?

Damage reports for high category hurricanes have consistently demonstrated the capacity for devastating injury to people and severe destruction of property. The severity of damage that can result from storms is tremendous in its potential for catastrophic and widespread devastation and should be mitigated against to the greatest degree possible. This becomes particularly significant at critical facilities, especially at the area's only dedicated children's hospital.

What kinds of property are at risk?

Flood Children's Hospital (FCH) is the only licensed specialty hospital dedicated exclusively to the care of children in the State and it is the only free-standing pediatric level one trauma center in the state. It has 275 in-patient pediatric and neonatal beds and treats patients 21 years of age and under at all levels of acuity. The facility is located in the south central part of the county and is situated in a residential neighborhood. (See attached miles inland map & map of Unincorporated Flood County with FCH indicated). Its location makes it vulnerable to storm related damages since it is the highest building in the area with three stories dedicated to patient care (See attached aerial map of FCH). FCH is

equipped with a 24,000 pound landing capacity helipad, a medical staff of more than 650 physicians and over 2,400 employees (See attached FCH campus map). It draws in children for highly specialized procedures from across the State and around the world and generally operates at close to full capacity. The project outlined in this submission proposes to elevate the structural strength of the Mechanical Room. The Mechanical Room is dedicated to the housing of, in addition to other things, HVAC, air filtration, electrical and mechanical systems any of which, if interrupted, could result in an interruption of patient care. The proposed mitigation project encompasses hardening of the walls, doors, louvers and roofing assemblies of the structure to exceed code. The proposed project will enhance the structural integrity of the building up to a high Category 4 Hurricane. Given its vital significance to the community, FCH operates 24 hours a day 7 days per week. In impending hurricanes and other severe weather occurrences, the institution's only option is to shelter in place. In addition, the Hospital serves as a "Medical Management Facility (MMF)" evacuation shelter that accepts children requiring special medical attention and/or electrical support services such as oxygen & dialysis equipment. Its status as the only dedicated children's hospital in the area elevates the importance of securing the Mechanical Room structure to ensure ultimate protection.

Are there better, alternative ways to solve the problem?

The current building does not meet the newest building code guidelines for wind strength and pressure uplift protection. The project, given its vital significance to the pediatric population, has been identified but has not yet been budgeted. It is with optimistic though humble hope that FEMA provide the additional structural strengthening up to a Category four (4) hurricane. For each proposed component of the project, extensive research was conducted to determine that the proposed solution was the optimal construction approach. Limited alternatives exist to provide increased structural support to the overall facility. To illustrate this, for example, the overall erection of the walls could have been proposed with glass reinforced concrete panels (GRCP), which have been used to fortify other patient care buildings on the hospital's main campus. While easier to assemble from a labor standpoint, the GRCP are expensive and therefore, have a cost differential that is too great to be justified. Given the significance of the intended function of the facility, the strengthened construction choice demanded the best and most secure option possible, which after careful analysis proved to be total increased fortification at every level of assembly with filled and rebar reinforced concrete block emerging the best option. Ultimately, the solutions arrived at and outlined in this proposal were deemed the most advantageous because they address the potential weak areas and vulnerabilities inherent in building a structure to meet the minimum required by code and offer a high level of protection and cost effectiveness over the long term. They also address the proactive strengthening of the structure at the appropriate time, namely before commencement of the construction process. In addition, it offers a high level of protection, a long term solution and is cost effective.

Are the mitigation project costs well documented and reasonable?

Yes

If you would like to make any comments, please enter them below.

Attached please find: (1) Real Estate Lease Figures for the County (2) FCH Property Insurance Sheet (3) County Map w/ FCH marked (4) FCH Aerial Map (5) FCH Campus Map (6) Verification of BCA Data (7) 2006 FCH Budget (8) DDT Mechanical Room (9) WindHazard Snapshot (10) BCA Methodology

Attachments:

Real Estate Lease Figures in the County 2008.jpg FCH Property Insurance 2007.xls
County Map with FCH marked.pdf
FCH Aerial Map.pdf
FCH Campus Map.pdf
FCH System 2006 Hospital Budget.jpg
Wind-HazardSnapshot-FCH-Mech-2008.pdf
Wind-HazardSnapshot-FCH-Mech-2008.snp
BCA Methodology Mechanical.doc
Verfication_of_Mechanical_Room_BCA_Data.pdf
DDT FCH Harden Mechanical Room.doc

		Damage History	
Date	Event	Description of Damage	Amount of Damage

11-1994	Tropical Storm	Tropical Storm. Winds were reported at 52 miles per hour with 3-5' storm surge.	\$ 90,000,000.00
08-1995	Tropical Storm	Tropical Storm caused wind damage and flooding.	\$ 50,000,000.00
10-1999	Hurricane	Hurricane. Wind and flood damage was sustained. Winds were recorded at 75 miles per hour with 3-5' storm surge.	\$ 100,000,000.00
10-2000	Tropical Storm	This Tropical Storm, which became a Hurricane resulted in tremendous rainfall. It caused widespread flooding with 2-4' storm surge.	\$ 500,000,000.00
09-2004	Hurricane	Hurricane had winds at 75 miles per hour with a storm surge of 3-5'.	\$ 33,000,000.00
09-2004	Tropical Storm	This tropical storm brushed the County as a Tropical Storm with 50 miles per hour winds and storm surge of 2-4'.	\$ 10,400,000.00
07-2005	Hurricane	Hurricane with maixmum sustained windspeed of 130 miles per hour	\$ 2,000,000,000.00
08-2005	Hurricane	Hurricane had windspeeds of 80 miles per hour and a storm surge of 2-4'.	\$ 300,000,000.00
09-2005	Tropical Storm Rita	Tropical Storm had wind speeds of 50 miles per hour and a storm surge of 2-3'.	\$ 12,000,000.00
12-2005	Hurricane	Hurricane had windspeeds of 110 miles per hour and a storm surge of 5-6'.	\$ 2,000,000,000.00
		Total Amount of Damage	\$5,095,400,000.00

A. National Historic Preservation Act - Historic Buildings and Structures

•	nore in age?					
If Yes, y	ou must confirm that you have provided the following:					
	The property address and original date of construction for each property affected (unless this information is already noted in the Properties section),					
	A minimum of two color photographs showing at least three sides of each structure (Please label the photos accordingly),					
	A diagram or USGS 1:24,000 scale quadrangle map displaying the relationship of the property(s) to the project area.					
To help	FEMA evaluate the impact of the project, please indicate below any other information you are providing:					
	Information gathered about potential historic properties in the project area, including any evidence indicating the age of the building or structure and presence of buildings or structures that are listed or eligible for listing on the National Register of Historic Places or within or near a National Register listed or eligible historic district. Sources for this information may include the State Historic Preservation Officer, and/or the Tribal Historic Preservation Officer (SHPO/THPO), your local planning office, historic preservation organization, or historical society.					
	Consideration of how the project design will minimize adverse effects on known or potential historic buildings or structures, and any alternatives considered or implemented to avoid or minimize effects on historic buildings or structures. Please address and note associated costs in your project budget.					
	For acquisition/demolition projects affecting historic buildings or structures, any data regarding the consideration and feasibility of elevation, relocation, or flood proofing as alternatives to demolition.					

other histo evaluation State Clea exceed 50 FEMA, it is cv. Theref recommer	review will be necessary for this project since the building was originally confice property will be affected as a result of the initiatives outlined. This project to review all applicable laws and executive orders by State staff. This project ringhouse. Federal agency coordination is not needed for the project. The structure years in age; therefore there are no historic preservation concerns. Based of anticipated this project will qualify as a NEPA Categorical Exclusion (Level 2 pre, the preparation of an Environmental Assessment or Environmental Impart ded. Please find the following attached: (1) USGS 1:240000 quadrangle magnificant and the state of the project will provide the second state of t	has undergone environmental t is exempt from review by the ructure in this project does not n previous determinations by 2) under 44 C.F.R. '10.8 (d) (2) ct Statement is not
Attachmer		
JSGS 10p	oo map.pdf	
3. Nation	al Historic Preservation Act - Archeological Resources	
	your project involve disturbance of ground?	No
If Y	es, you must confirm that you have provided the following:	
	A description of the ground disturbance by giving the dimensions (area, volu	ume, depth, etc.) and location
	The past use of the area to be disturbed, noting the extent of previously dist	curbed ground.
	A USGS 1:24,000 scale or other site map showing the location and extent of	f ground disturbance.
То	nelp FEMA evaluate the impact of the project, please indicate below any other	er information you are providing:
	Any information about potential historic properties, including archeological s of this information may include SHPO/THPO, and/or the Tribe's cultural reso designated. Include, if possible, a map showing the relation of any identified area.	ources contact if no THPO is
	Attached materials or additional comments.	
Comments		
•	lease find the following: (1) Clearinghouse review	
Attachmer		
State Clea	ringhouse- Hardening & Code Plus .pdf	
C Fudan	wared Creation Act and Fish and Wildlife Coordination Act	
	gered Species Act and Fish and Wildlife Coordination Act	
	ederally listed threatened or endangered species or their critical habitat presented by the project?	ent in the No
If Y	es, you must confirm that you have provided the following:	
_	Information you obtained to identify species in or near the project area. Prov	

	To h	elp FEMA evaluate the impact of the project, please indicate below any other information	you are providing:		
Г		Any request for information and associated response from the USFWS, the National Mar Service (NMFS) (for affected ocean-going fish), or your State Wildlife Agency, regarding species present and potential of the project to impact those species.			
Г		Attached materials or additional comments.			
Comme	ents:				
* 2. Do	es y	our project remove or affect vegetation?	No		
	lf Ye	s, you must confirm that you have provided the following:			
Г		Description of the amount (area) and type of vegetation to be removed or affected.			
Г		A site map showing the project area and the extent of vegetation affected.			
Г		Photographs or digital images that show both the vegetation affected and the vegetation surroundings.	in context of its		
	To h	elp FEMA evaluate the impact of the project, please indicate below any other information	you are providing:		
Г	Attached materials or additional comments.				
Comme	Comments:				
	your iter?	project in, near (within 200 feet), or likely to affect any type of waterway or body of	No		
	lf Ye	s, and project is not within an existing building, you must confirm that you have provided	the following:		
		A USGS 1:24,000 scale quadrangle map showing the project activities in relation to all (within 200 feet).	nearby water bodies		
		Any information about the type of water body nearby including: its dimensions, the prox activity to the water body, and the expected and possible changes to the water body, if water bodies regardless whether you think there may be an effect			
		A photograph or digital image of the site showing both the body of water and the projec	t area.		
	To h	elp FEMA evaluate the impact of the project, please indicate below any other information	you are providing:		
		Evidence of any discussions with the US Fish and Wildlife Service (USFWS), and/or yo Agency concerning any potential impacts if there is the potential for the project to affect			
ı		Attached materials or additional comments.			

Comments:
Attachments:
D. Clean Water Act, Rivers and Harbors Act, and Executive Order 11990 (Protection of Wetlands)
* 1. Will the project involve dredging or disposal of dredged material, excavation, adding fill material or result in any modification to water bodies or wetlands designated as "waters of the U.S" as No identified by the US Army Corps of Engineers or on the National Wetland Inventory?
If Yes, you must confirm that you have provided the following:
Documentation of the project location on a USGS 1:24,000 scale topographic map or image and a copy of a National Wetlands Inventory map or other available wetlands mapping information.
To help FEMA evaluate the impact of the project, please indicate below any other information you are providing:
Request for information and response letter from the US Army Corps of Engineers and/or State resource agencies regarding the potential for wetlands, and applicability of permitting requirements.
Evidence of alternatives considered to eliminate or minimize impacts to wetlands.
☐ Attached materials or additional comments.
Comments:
Attachments:
E. Executive Order 11988 (Floodplain Management)
* 1. Does a Flood Insurance Rate Map (FIRM), Flood Hazard Boundary Map (FHBM), hydrologic study, or some other source indicate that the project is located in or will affect a 100 year floodplain, a 500 year floodplain if a critical facility, an identified regulatory floodway, or an area prone to flooding?
If Yes, please indicate in the text box below any documentation to identify the means or the alternatives considered to eliminate or minimize impacts to floodplains (See the 8 step process found in 44 CFR Part 9.6.) to help FEMA evaluate the impact of the project:
* 2. Does the project alter a watercourse, water flow patterns, or a drainage way, regardless of its floodplain designation?
If Yes, please indicate below any other information you are providing to help FEMA evaluate the impact of the project:

		Hydrologic/hydraulic information from a qualified engineer to demonstrate how draina patterns will be changed and to identify down and upstream effects.	ge and flood flow
		Evidence of any consultation with US Army Corps of Engineers (may be included und Environmental Information).	er Part D of the
		Request for information and response letter from the State water resource agency, if a jurisdiction over modification of waterways.	applicable, with
		Attached materials or additional comments.	
Commen	its:		
Attachme	ents:		
F. Coast	tal Zor	ne Management Act	
* 1. Is th	e proje	ct located in the State's designated coastal zone?	No
	If Yes	s, please indicate below any other information you are providing to help FEMA evaluate ct:	the impact of the
		Information resulting from contact with the appropriate State agency that implements management program regarding the likelihood of the project's consistency with the St zone plan and any potential requirements affecting the cost or design of the proposed	ate's coastal
		Attached materials or additional comments.	
Commen	ıts:		
Attachme	ents:		
G. Farm	land P	rotection Policy Act	
	•	ject convert more than 5 acres of "prime or unique" farmland outside city limits to a tural use?	No
Commen	its:		
Attachme	ents:		
II DOD	A = == =! (OFFICIA (Harandana and Taria Materiala)	

H. RCRA and CERCLA (Hazardous and Toxic Materials)

* 1. Is there a reason to suspect there are contaminants from a current or past use on the property

associated with the proposed project?			
If Yes, please indicate below any other information you are providing to help FEMA evaluate the impact of project:			
Comments and any relevant documentation.			
Results of any consultations with State or local agency to obtain permit with requirements for handling, disposing of or addressing the effects of hazardous or toxic materials related to project implementation.			
Attached materials or additional comments.			
Comments:			
* 2. Are there any studies, investigations, or enforcement actions related to the property associated with the proposed project?			
If Yes, please indicate below any other information you are providing to help FEMA evaluate the impact of the project:			
Comments and any relevant documentation.			
Results of any consultations with State or local agency to obtain permit with requirements for handling, disposing of or addressing the effects of hazardous or toxic materials related to project implementation.			
Attached materials or additional comments.			
Attached materials or additional comments. Comments:			
Comments: * 3. Does any project construction or operation activities involve the use of hazardous or toxic			
* 3. Does any project construction or operation activities involve the use of hazardous or toxic materials? No If Yes, please indicate below any other information you are providing to help FEMA evaluate the impact of the			
* 3. Does any project construction or operation activities involve the use of hazardous or toxic materials? If Yes, please indicate below any other information you are providing to help FEMA evaluate the impact of the project:			
* 3. Does any project construction or operation activities involve the use of hazardous or toxic No Mo If Yes, please indicate below any other information you are providing to help FEMA evaluate the impact of the project: Comments and any relevant documentation. Results of any consultations with State or local agency to obtain permit with requirements for handling,			
* 3. Does any project construction or operation activities involve the use of hazardous or toxic naterials? If Yes, please indicate below any other information you are providing to help FEMA evaluate the impact of the project: Comments and any relevant documentation. Results of any consultations with State or local agency to obtain permit with requirements for handling, disposing of or addressing the effects of hazardous or toxic materials related to project implementation.			
* 3. Does any project construction or operation activities involve the use of hazardous or toxic materials? If Yes, please indicate below any other information you are providing to help FEMA evaluate the impact of the project: Comments and any relevant documentation. Results of any consultations with State or local agency to obtain permit with requirements for handling, disposing of or addressing the effects of hazardous or toxic materials related to project implementation. Attached materials or additional comments.			

	Comments and any relevant documentation.	
	Results of any consultations with State or local agency to obtain permit with requirement disposing of or addressing the effects of hazardous or toxic materials related to project in	
	Attached materials or additional comments.	
Comments:		
A		
Attachments:		
I. Executive	Order 12898, Environmental Justice for Low Income and Minority Populations	
* 1. Are there project a	e low income or minority populations in the project's area of effect or adjacent to the rea?	No
lf Y	es, you must confirm that you have provided the following:	
Г	Description of any disproportionate and adverse effects to these populations.	
	help FEMA evaluate the impact of the project, please indicate below any other informatio oviding:	n you are
Г	Description of the population affected and the portion of the population that would be disproportionately and adversely affected. Please include specific efforts to address timpacts in your proposal narrative and budget.	
	Attached materials or additional comments.	
Comments:		
Attachments:		
Attachments.		
J. Other E	nvironmental/Historic Preservation Laws or Issues	
	e other environmental/historic preservation requirements associated with this project that aware of?	No
If Yes	s, please indicate in the text box below a description of the requirements, issues or public i.	involvement
* 2. Are there	e controversial issues associated with this project?	No
If Yes	s, please indicate in the text box below a description of the requirements, issues or public	involvement

effort.		
* 3. Have you conducted any public meeting or solicited public input or comments on your specific proposed mitigation project?	No	
If Yes, please indicate in the text box below a description of the requirements, issues or pureffort.	blic involvement	
Attachments:		
K. Summary and Cost of Potential Impacts		
* 1. Having answered the questions in parts A. through J., have you identified any aspects of your proposed project that have the potential to impact environmental resources or historic properties?	No	
If Yes, you must confirm that you have:		
Evaluated these potential effects and provided the materials required in Parts A throunature and extent of potential impacts to environmental resources and/or historic pro		
Consulted with appropriate parties to identify any measures needed to avoid or minir	mize these impacts.	
Considered alternatives that could minimize both the impacts and the cost of the pro-	ject.	
Made certain that the costs of any measures to treat adverse effects are realistically project budget estimate.	reflected in the	
Comments:		
This project has undergone environmental evaluation to review all applicable laws and executive orders by State staff. This project is exempt from review by the State Clearinghouse. Federal agency coordination is not needed for the project. The structure in this project does not exceed 50 years in age, therefore there are no historic preservation concerns. Based on previous determinations by FEMA, it is anticipated this project will qualify as a NEPA Categorical Exclusion (Level 2) under 44 C.F.R. '10.8 (d)(2)xv. Therefore, the preparation of an Environmental Assessment or Environmental Impact Statement is not recommended.		
Attachments:		
Maintenance Schedule and Costs		

Provide a maintenance schedule including cost information

Flood Children's Hospital (FCH) has an ongoing and comprehensive preventive maintenance plan for all its facilities. This plan will extend to the project proposed in this application once it has been constructed and which as an enhancement to the structure cannot truly be maintained separate and apart from the building as a whole. Specifically, the overall structure will be visually inspected twice per year and will address any identified corrective actions such as patching cracks as needed. Approximately once every 5 years, the overall structure will be painted. The preventive maintenance plan

	described will cost 1% or less per year of the total project cost and will be conducted by both FCH Support Services Department and contracted vendors.
Identify entity that will perform any long-term maintenance	Flood Children's Hospital Facilities Department and Contracted Vendor
If you would like to make any comments, please enter them below.	Attached is a Maintenance Commitment Letter
Attach letter from entity accepting performance responsibility	Maintenance Commitment for Mechanical Room.doc

Evaluation Information (Part 1 of 4)			
Is the recipient participating in the Community Rating System (CRS)?	Yes		
If yes, what is their CRS rating?	2		
Is the recipient a Cooperating Technical Partner (CTP)?	Yes		
Is the recipient a <u>Firewise Community?</u>	No		
If yes, please provide their Firewise Community number.			
Has the recipient adopted building codes consistent with the International Codes?	Yes		
Has the recipient adopted the <u>National Fire Protection Association</u> (NFPA) 5000 Code?	No		
Have the recipient's building codes been assessed on the <u>Building</u> <u>Code Effectiveness Grading Schedule (BCEGS)?</u>	Yes		
If yes, what is their BCEGS rating?	1		
Is the recipient a <u>Disaster Resistant University</u> ?	No		
Is the recipient a <u>Historically Black College or University or a Tribal College or University?</u>	No		

Evaluation Information (Part 2 of 4)

Describe the desired outcome and methodology of the mitigation activity in terms of mitigation objectives to be achieved.

The proposed project aims to improve the overall structural integrity of Flood Children's Hospital (FCH) main campus by hardening the Mechanical Room to exceed current building code to provide protection up to a high Category 4 Hurricane. Above all else, the desired outcome is to have stronger structure that will ensure the safety of the young patients, dedicated staff and valuable equipment located within the building. In addition the ongoing provision of continuous operational capacity is essential to the welfare of not only patients but the entire community especially during adverse conditions. The methodology employed necessitated the contracting of several experts including vendor specialists, architects and engineers to assess the greatest vulnerabilities on the FCH main campus and satellite locations. The primary goal of the initiative outlined is to improve the safety of the institution and to ensure continuous operational capacity of the building at all times, but particularly in the event of a high category hurricane or other extreme weather event. This project was prioritized given its timeliness and vital significance to Flood Children's Hospital. The objective of the project is to determine the optimal solution and to secure the funding for its installation. The proposed solution was derived from several sources including professional vendor, architectural and engineering reviews, as well as a factoring of issues unique to FCH. The proposed project provides the most direct path to a solution that is straightforward in design, cost effective and long term in nature.

Describe performance expectations and timeline for interim milestones and overall completion of mitigation activity.

The entire proposed project is anticipated to take approximately 3 years or 1090 days from the official notice of grant award from FEMA through to completion. Performance expectations mirror the Scope of Work section of this submission which details the overall work schedule. The timeline for the project's milestones include: Formal process to accept

award & execute contract with FEMA of 30 days, Solicit proposal, negotiate contract & issue purchase order with vendor of 60 days, Design phase with architects and engineers of 100 days, Permitting process of 180 days and the actual hardening of the Mechanical Room including structural hardening and final inspections of 730 days.

Describe how you will manage the costs and schedule, and how you will ensure successful performance.

The Support Services Department at Flood Children's Hospital (FCH) shall oversee and carefully manage the proposed project from start to finish. Given the capital nature of the initiative, upon notice of funding, it will be instituted into the organization's standard operating procedure of comprehensive management and oversight including weekly team meetings and targeted milestone updates. Upon commencement, a project budget will be developed and utilized as a yardstick through the grant drawdown process. Invoices will be presented and paid according to the boundaries of the developed budget. If the size of the project warrants, upon completion, an outside auditor may be retained to review the project's evolution and ensure compliance. Specifically, the Vice President of Support Services, shall be responsible for the overall project and will be well supported by an expert team of design professionals, vendor specialists and experienced project managers, as well as, a seasoned internal staff of trained and broad-based specialists. Ultimately, since FCH is a private not-for-profit entity, it must serve as sub-applicant under the auspices of the County. In this capacity, the County will serve as fiscal agent thereby affording a checks and balances system of fiscal accountability, depth of experience with project management and a vested partner in assuring of project competition. This arrangement shall serve to further strengthen the coordination and inter-dependability between FCH and Flood County.

Describe the staff and resources needed to implement this mitigation activity and the applicant's ability to provide these resources.

The overall management and responsibility for the proposed project is the Vice President of Support Services at Flood Children's Hospital (FCH). The individual project components will be orchestrated by a strong team consisting of experienced internal staff, as well as, design professionals, vendor specialists and experienced project managers. A contracted and/or internal grant manager will oversee the project's funding reporting requirements, compliance and LMS coordination activities. Specifically, the Director of Facility Engineering shall oversee the Shutter and Roof retrofit hardening project. The Director of Architectural & Construction Services shall weigh in on the progress of the projects as will the various internal departments involved such as fiscal and procurement. As required, FCH commits its full scope of resources to ensure the smooth progression of the proposed initiative. This includes a complete acknowledgment and willingness to exceed the required cost match by contributing both direct financial support of 25% and offering the in-kind support of the institution.

If applying for multiple mitigation activities, how do these activities relate?

Flood Children's Hospital (FCH) is submitting four (4) Pre Disaster Mitigation grant applications. Two (2) of these applications address hardening from storm related wind damage: the Northeast Building, and Mechanical Room on the Main In-Patient Building. The initiatives propose the upgrade of the exterior of these structures to hurricane rated and the County approved windows, roof coverings, doors, as well as rooftop equipment tie downs. The third project involves installing and securing a comprehensive drainage system for a flood prone area of the FCH campus. The final (4th) initiative involves the request for assistance to provide additional structural fortification to the new construction of a committed soon to be built Patient Bed Tower. This latter, "code plus" application in concert with the other proposals will enable the main campus of FCH to emerge stronger and more capable. This in turn allows the continuance of essential medical services to the children of Flood County in the event of a catastrophic occurrence. All projects specified seek to exceed current impact resistant building codes at critical facilities. In partnership, the proposed projects relate by creating a better protected main FCH campus which in the midst of severe storm related hurricane force winds will better withstand individual and collective damage.

Evaluation Information (Part 3 of 4)

How will this mitigation activity leverage involvement of partners to enhance its outcome?

A community is only as strong as the strength of its critical and essential services infrastructure. If any level of failure were to occur in times of extreme emergency, the entire community stands to needlessly suffer. To ensure a successful outcome for the proposed project, Flood Children's Hospital (FCH) has engaged a broad scope and experienced team of experts to guide and accomplish the many tasks involved. The various individuals, entities and departments have been detailed in earlier sections of this submission but all have been fully leveraged and are vested to guarantee a smoothly implemented and expertly executed project. FCH views its responsibility to the State with the utmost diligence and consideration. Collaboration within the local and broader community and subsequent leveraging of the successful outcomes has been a proud tradition. As in the past, if FCH is fortuitous enough to obtain FEMA federal assistance to

accomplish the outlined initiatives, the main campus can and will serve as a model of mitigation excellence for the community and the nation.

How will this mitigation activity offer long-term financial and social benefits?

The long term benefits of the proposed projects are mainly found in the overall increased protection for the exterior of the Mechanical Room. This includes structural reinforcements to the wall, roof, window and door openings. All of the proposed hardening solutions are anticipated to surpass 30 years of useful life. In addition, all of the outlined structural components will provide enhanced defense up to a Category 4 Hurricane with 178 mile per hour wind speeds. In the long run, with a more fortified main campus, Flood Children's Hospital will be able to serve as a stronger and better prepared resource during times of emergency for all children in the State.

How does this mitigation activity comply with Federal laws and Executive Orders, and how is it complementary to other Federal programs?

All aspects of the projects within the framework of this submission will be conducted according to all applicable Federal, State and local regulations. The materials and installation specified shall exceed current County Building code.

What outreach activities are planned relative to this mitigation activity (e.g., signs, press releases, success stories, developing package to share with other communities, losses avoided analysis) and/or how will this mitigation activity serve as a model for other communities (i.e. Do you intend to mentor other communities, Tribes or States? Do you intend to prepare a description of the process followed in this activity so that others may learn from the example?)?

Upon notice of grant award, Flood Children's Hospital will engage its public relations department to proudly promote the pending partnership with FEMA in better mitigating its main campus location against the potential for damages brought on by severe weather occurrences. This public relations effort will likely result in local press coverage in both internal and external publications and will serve to alert the local community about the proactive and better fortified condition of the institution. In addition, the Vice President of Flood Children's Hospital makes frequent presentations to the healthcare and insurance industries on the preparedness and post storm operational continuity. In this capacity and with FEMA's advance permission he will highlight the ongoing partnership that has afforded Flood Children's Hospital to better mitigate against the potential for storm related damage. As in the past, Flood Children's Hospital will continue to serve as host to future Flood County LMS meetings and events.

Evaluation Information	on (Part 4 of 4)	
Please provide the percent of the population benefiting from this mitigation activity.	100.0	
Please explain your response.	Flood Children's Hospital (FCH) is the only licensed specialty hospital dedicated to the exclusive care of children in the State and it is the only free-standing pediatric level one trauma center in the state. It has 27 in-patient pediatric and neonatal beds and treats patients 21 years of age and under at all levels of acuity. The facility serves as an evacuation shelter for medically and electrically dependent pediatric resident during threat of hurricanes. It draws in children for highly specialized procedures from across the State and around the world and generally operates at close full capacity. As the only institution of its kind in the region, it serves as a unique resource to the entire community. While its patient base is limited wholly to children, they represent society's future and the next generation and as such affect 100% of the population.	
Net Present Value of Project Benefits (A)	\$ 7094391.00	
Total Project Cost Estimate (B)	\$ 903800.00	
What is the Benefit Cost Ratio for the entire project (A/B)?	7.850	
Analysis Type	FEMA BCA software methodology	
What is the primary hazard data used for the BCA?	Hurricane	

What secondary hazards were considered during the BCA?	Coastal Storm, Severe Storm(s), Tornado, Tropical Cyclones, Windstorms
Other Secondary Hazard	
Does this mitigation activity protect a critical facility?	Yes
If yes, please select the type of critical facilities to be protected	Emergency Medical Care Facilities

Comments:

Name Date Attached

		Comments and Attachments	
Name of Section	Comment	Attachment	Date Attached
	Attached please find the following: (1,2) 2005 US Census Data for Flood County (3) State Census Fact Sheet (4) FCH Neighborhood Summaries (5) FCH IRS 501 c 3 designation (6) State Clearinghouse	2005 Census Data for Flood County.pdf	12-07-2007
		State Census Fact Sheet.pdf	12-07-2007
		Census Fact Sheet County.pdf	12-07-2007
Community		FCH Neighborhood Summaries.pdf	12-07-2007
Information		IrsDeterminationLetter.pdf	12-07-2007
		State Clearinghouse- Hardening & Code Plus .pdf	12-16-2007
	Attached please find	LMS 12 2007.doc	12-16-2007
	the following: (1) FCH Signatory Authority Policy (2) FCH Signatory Authority Letter (3) County Local Mitigation Strategy	Signatory Authority Policy.pdf	12-07-2007
		FEMA Approval of FC LMS.pdf	12-07-2007
Mitigation Plan Information		FCH Signatory Authority 2008.jpg	12-17-2007
	Letter of Support (4) FEMA Approval of FC LMS (5) LMS Project List Dec 2006	County Local Mitigation Strategy Letter of Support for PDM 2008.pdf	12-16-2007
Mitigation Activity Information	Flood Children's Hospital has made tremendous progress in fortifying its overall facilities. The first three (3) floors of the main patient care buildings underwent a pioneering and sophisticated encapsulation process a few years back that elevated their structural integrity to exceed current building code up to a strong Category 4 Hurricane. In addition.		

several buildings have or are in process of obtaining hurricane shutters and other protective measures. The recent active storm seasons have offered many lessons learned. While tremendous progress has been made, there remains much to be accomplished. To further strengthen the main Children's Hospital campus, the project outlined in this submission proposes to reinforce the structural envelope of the Main Patient Building's Mechanical Room to withstand Category 4 hurricane wind gusts and pressure fluctuations, as well as large and small wind borne missiles. The Mechanical Room currently houses all the building's major mechanical and electrical systems including air conditioning. dehumidifiers, filtration and associated hardware. This area was not hardened back when FCH completed its original encapsulation project, yet the institution cannot properly function without its support & function. The Mechanical Room requires hardening to provide for the uninterrupted care of patients within the Main Patient Building during times of crisis during and immediately following a hurricane or other severe weather

disturbance. The

proposed mitigation project encompasses the hardening of existing structure through the addition of structural steel, adding additional requirements for a fully adhered roofing system, removing existing vulnerable structures and fortifying exterior walls and mechanical louvers to above current building code. The proposed project will elevate the structural integrity of the building up to a Category 4 Hurricane and furthers campus consistencies inherent in the majority of other buildings on the property. This collective strength will result in less potential damage overall and, in concert; will afford even greater protection to the institution's fragile occupants and valuable property. All of the projects, including the one outlined in this proposal, work collectively with each other and with the community at large to ensure the safety and security of patients, personnel and property.

Hurricanes have long been a fundamental aspect of life in the State. The location of the County in the southeastern most part of the state additionally FCH Firmette.pdf

fact, all of the County, particularly the unincorporated region

of the state additionally FCH Firmette.p increases the hazard risk for hurricanes. In

12-19-2007

Hazard Information

12-19-2007

has a hazard vulnerability that is high in frequency and catastrophic in severity and potential loss for hurricane wind & surge. In addition, the area is equally under constant threat from the occurrence of tornadoes, thunderstorms and lightening. The threats brought on by high winds are now and will likely remain to be a constant and must be addressed proactively. Children's Hospital has a proud history of aggressively mitigating against the possibility for storm related damage. The hardening project outlined in this proposal continues this tradition and recommends the strengthening of the Mechanical Room, to exceed code and by doing so, to set a shining fortified example for the community and the nation. Attached (on the previous page) please find the following: (1) FEMA FIRMette (2) County Flood Designation

Attached please find the following: (1)
Glazing Consultants
Wind Analysis (2) Fully
Adhered roofing
Product Specifications
(3) FCH MMF
Agreement (4) FCH
Main Campus Map (5)
County map with FCH
marked (6) Aerial map
of FCH campus (7)
NOA for fully adhered roofing system (8)
FEMA Best Practices

East Wall Exterior.jpg	12-17-2007
East.JPG	12-17-2007
Interior of wall.JPG	12-17-2007
North 1.JPG	12-17-2007
North 2.JPG	12-17-2007
Southwest.JPG	12-17-2007
West 1.JPG	12-17-2007
West 2.JPG	12-17-2007
West 3.JPG	12-17-2007
Along North Wall Ext.jpg	12-17-2007
FEMA Best Practices - Encapsulation.doc	12-16-2007

Scope of Work

	for Encapsulation	Typical Wall deterioration.jpg	12-17-2007
	projects (9-24) Pictures of structures, existing damage, and directional	Typical Wall Detail.jpg	12-17-2007
		South Wall Exterior.jpg	12-17-2007
		Interior Electrical JBox Detail.jpg	12-17-2007
		NOA Fully Adhered over concrete.pdf	12-07-2007
		FCH Aerial Map.pdf	12-07-2007
		County Map with FCH marked.pdf	12-07-2007
		FCH Campus Map.pdf	12-07-2007
		MMF Agreement Memo.pdf	12-07-2007
	Fully Adhered Product Spec.pdf	12-07-2007	
		Glazing Consultants FCH Wind Analysis.doc	12-17-2007
		Louvers - East.JPG	12-17-2007
	Attached please find	Mechanical Room Cost Estimate.xls	12-17-2007
	the following: (1) FCH General Contractor Cost Estimate (2) Cost Match Agreement (3) Project Development Fee Memo	Project Development Fee Acknowledgement.doc	12-17-2007
Match Sources		Mechanical Cost Match.pdf	12-17-2007
		Mechanical Cost Match.pdf	12-17-2007
	Attached please find:	Wind-HazardSnapshot-FCH-Mech-2008.snp	01-28-2008
	(1) Real Estate Lease Figures for Flood County (2) FCH Property Insurance Sheet (3) County Map W/ FCH marked (4) FCH Aerial Map (5)	BCA Methodology Mechanical.doc	12-21-2007
		Verfication_of_Mechanical_Room_BCA_Data.pdf	12-21-2007
Cost FCH FCH Verif		DDT MCH Harden Mechanical Room.doc	12-21-2007
		Mechanical Hardening.XLS	12-21-2007
		MCH Property Insurance.xls	12-16-2007
		Real Estate Lease Figures in County.jpg	12-20-2007
		Wind-HazardSnapshot-FCH-Mech.pdf	01-28-2008
		FCH System 2005 Hospital Budget.jpg	12-07-2007
		County Map with FCH marked.pdf	12-07-2007
		FCH Aerial Map.pdf	12-07-2007
		FCH Campus Map.pdf	12-07-2007
Maintenance Schedule and Costs	Attached is a Maintenance Commitment Letter	Maintenance Commitment for Mechanical Room.doc	12-19-2007

Assurances and Certifications	
Please click the link in the status column to view forms.	
Forms	Status
Part II: FEMA Form 20-16B, Assurances Construction Programs.	Complete
Part II: FEMA Form 20-16C, Certifications Regarding Lobbying; Debarment, Suspension and Other Responsibilities Matters; and Drug-Free Workplace Requirements.	Complete
Part III: SF-LLL Disclosure of Lobbying Activities (Complete only if applying for a grant of more than	Not Applicable

FEMA Form 20-16B, Assurances-Construction Programs

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0042), Washington, DC 20503.

PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET. SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.

NOTE: Certain of these assurances may not be applicable to your project or program. If you have questions, please contact the awarding agency. Further, certain Federal assistance awarding agencies may require applicants to certify to additional assurances. If such is the case, you will be notified.

As the duly authorized representative of the applicant, I certify that the applicant:

- 1. Has the legal authority to apply for Federal assistance, and the institutional, managerial and financial capability (including funds sufficient to pay the nonfederal share of project costs) to ensure proper planning, management and completion of the project described in this application.
- 2. Will give the awarding agency, the Comptroller General of the United States and, if appropriate, the State, through any authorized representative, access to and the right to examine all records, books, papers, or documents related to the assistance; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.
- 3. Will not dispose of, modify the use of, or change the terms of the real property title, or other interest in the site and facilities without permission and instructions from the awarding agency. Will record the Federal interest in the title of real property in accordance with awarding agency directives and will include a covenant in the title of real property acquired in whole or in part with Federal assistance funds to assure nondiscrimination during the useful life of the project.
- 4. Will comply with the requirements of the assistance awarding agency with regard to the drafting, review and approval of construction plans and specifications.
- 5. Will provide and maintain competent and adequate engineering supervision at the construction site to ensure that the complete work conforms with the approved plans and specifications and will furnish progress reports and such other information as may be required by the assistance awarding agency or state.
- 6. Will initiate and complete the work within the applicable time frame after receipt of approval of the awarding agency.
- 7. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.
- 8. Will comply with the Intergovernmental Personnel Act of 1970 (42 USC Sections 4728-4763) relating to prescribed standards for merit systems for programs funded under one of the nineteen statues or regulations specified in Appendix A of OPM's Standards for a Merit System of Personnel Administration (5 CFR 900, Subpart F).
- 9. Will comply with the Lead-Based Paint Poisoning Prevention Act (42 USC Section 4801 et seq.) which prohibits the use of lead based paint in construction or rehabilitation of residence structures.
- 10. Will comply with all Federal statutes relating to nondiscrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (PL 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 USC Sections 1681-1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) Section 504 of the Rehabilitation Act of 1973, as amended (29 USC Section 794), which prohibits discrimination on the basis of handicaps: (d) the Age Discrimination Act of 1975, as amended (42 USC Sections 6101-6107), which

prohibits discrimination on the basis of age; (e) the Drug Abuse Office and Treatment Act of 1972 (PL 92-255), as amended, relating to nondiscrimination on the basis of drug abuse; (f) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (PL 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (g) Sections 523 and 527 of the Public Health Service Act of 1912 (42 USC Sections 290-dd-3 and 290-ee-3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (h) Title VIII of the Civil Rights Act of 1968 (42 USC Section 3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; (I) any other nondiscrimination provisions in the specific statute(s) under which application for Federal assistance is being made; and, (j) the requirements of any other nondiscrimination statute(s) which may apply to the application.

- 11. Will comply, or has already complied, with the requirements of Titles II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (PL 91-646) which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal and Federally assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.
- 12. Will comply with the provisions of the Hatch Act (5 USC Sections 1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.
- 13. Will comply, as applicable, with the provisions of the Davis-Bacon Act (40 USC Sections 276a to 276a-7), the Copeland Act (40 USC Section 276c and 18 USC Section 874), and the Contract Work Hours and Safety Standards Act (40 USC Sections 327-333) regarding labor standards for federally assisted construction subagreements.
- 14. Will comply with flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973 (PL 93-234) which requires recipients in a special flood hazard area to participate in the program and to purchase flood insurance if the total cost of insurable construction and acquisition is \$10,000 or more.
- 15. Will comply with environmental standards which may be prescribed pursuant to the following: (a) institution of environmental quality control measures under the National Environmental Policy Act of 1969 (PL 91-190) and Executive Order (EO) 11514; (b) notification of violating facilities pursuant to EO 11738; (c) protection of wetlands pursuant to EO 11990; (d) evaluation of flood hazards in floodplains in accordance with EO 11988; (e) assurance of project consistency with the approved State management program developed under the Coastal Zone Management Act of 1972 (16 USC Section 1451 et seq.); (f) conformity of Federal actions to State (Clean Air) Implementation Plans under Section 176(c) of the Clean Air Act of 1955, as amended (42 USC Section 7401 et seq.); (g) protection of underground sources of drinking water under the Safe Drinking Water Act of 1974, as amended (PL 93-523); and (h) protection of endangered species under the Endangered Species Act of 1973, as amended (PL 93-205).
- 16. Will comply with the Wild and Scenic Rivers Act of 1968 (16 USC Section 1271 et seq.) related to protecting components or potential components of the national wild and scenic rivers system.
- 17. Will assist the awarding agency in assuring compliance with Section 106 of the National Historic Preservation Act of 1966, as amended (16 USC Section 470), EO 11593 (identification and preservation of historic properties), and the Archaeological and Historic Preservation Act of 1974 (16 USC Section 469a-1 et seq.).
- 18. Will cause to be performed the required financial and compliance audits in accordance with the Single Audit Act of 1984.
- 19. Will comply with all applicable requirements of all other Federal laws, Executive Orders, regulations, and policies governing this program.
- 20. It will comply with the minimum wage and maximum hour provisions of the Federal Fair Labor Standards Act (29 USC Section 201), as they apply to employees of institutions of higher education, hospitals, and other nonprofit organizations.
- 21. It will obtain approval by the appropriate Federal agency of the final working drawings and specifications before the project is advertised or placed on the market for bidding; that it will construct the project, or cause it to be constructed, to final completion in accordance with the application and approved plans and specifications; that it will submit to the appropriate Federal agency for prior approval changes that after the

cost of the project, use of space, or functional layout, that it will not enter into a construction contract(s) for the project or undertake other activities until the conditions of the construction grant program(s) have been met.

- 22. It will operate and maintain the facility in accordance with the minimum standards as may be required or prescribed by the applicable Federal, State, and local agencies for the maintenance and operation of such facilities.
- 23. It will require the facility to be designed to comply with the "American Standard Specification for Making Buildings and Facilities Accessible to, and Usable by, the Physically Handicapped," Number A117.- 1961, as modified (41 CFR 101-17.703). The applicant will be responsible for conducting inspections to ensure compliance with these specifications by the contractor.
- 24. If any real property or structure thereon is provided or improved with the aid of Federal financial assistance extended to the applicant, this assurance shall obligate the applicant, or in the case of any transfer of such property, any transfer, for the period during which the real property, or structure is used for a purpose for which the Federal financial assistance is extended or for another purpose involving the provision of similar services or benefits.
- 25. In making subgrants with nonprofit institutions under this Comprehensive Cooperative Agreement, it agrees that such grants will be subject to OMB Circular A-122, "Cost Principles for Nonprofit Organizations" included in Vol. 49, Federal Register, pages 18260 through 18277 (April 27, 1984).

I, Frank Sinatra, hereby sign this form as of 11-29-2009.

You must read and sign these assurances by providing your password and checking the box at the bottom of this page.

Note: Fields marked with an * are required.

Certifications Regarding Lobbying; Debarment, Suspension and Other Responsibility Matters; and Drug-Free Workplace Requirements.

Applicants should refer to the regulations cited below to determine the certification to which they are required to attest. Applicants should also review the instructions for certification included in the regulations before completing this form. Signature on this form provides for compliance with certification requirements under 44 CFR Part 18, "New Restrictions on Lobbying; and 28 CFR Part 17, "Government-wide Debarment and suspension (Nonprocurement) and Government-wide Requirements for Drug-Free Workplace (Grants)." The certifications shall be treated as a material representation of fact upon which reliance will be placed when the Federal Emergency Management Agency (FEMA) determines to award the covered transaction, grant, or cooperative agreement.

1. LOBBYING

A. As required by the section 1352, Title 31 of the US Code, and implemented at 44 CFR Part 18 for persons entering into a grant or cooperative agreement over \$100,000, as defined at 44 CFR Part 18, the applicant certifies that:

- (a) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of congress, or an employee of a Member of Congress in connection with the making of any Federal grant, the entering into of any cooperative agreement and extension, continuation, renewal, amendment, or modification of any Federal grant or cooperative agreement;
- (b) If any other funds than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal grant or cooperative agreement, the undersigned shall complete and submit Standard Form

LLL, "Disclosure of Lobbying Activities", in accordance with its instructions;

Standard Form LLL Disclosure of Lobbying Activities Not Attached

(c) The undersigned shall require that the language of this certification be included in the award documents for all the sub awards at all tiers (including subgrants, contracts under grants and cooperative agreements, and subcontract(s)) and that all subrecipients shall certify and disclose accordingly.

2. DEBARMENT, SUSPENSION AND OTHER RESPONSIBILITY MATTERS (DIRECT RECIPIENT)

As required by Executive Order 12549, Debarment and Suspension, and implemented at 44 CFR Part 67, for prospective participants in primary covered transactions, as defined at 44 CFR Part 17, Section 17.510-A. The applicant certifies that it and its principals:

- (a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, sentenced to a denial of Federal benefits by a State or Federal court, or voluntarily excluded from covered transactions by any Federal department or agency;
- (b) Have not within a three-year period preceding this application been convicted of or had a civilian judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or perform a public (Federal, State, or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
- (c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State, or locally) with commission of any of the offenses enumerated in paragraph (1)(b) of this certification; and
- (d) Have not within a three-year period preceding this application had one or more public transactions (Federal, State, or local) terminated for cause or default; and
- B. Where the applicant is unable to certify to any of the statements in this certification, he or she shall attach an explanation to this application.

Explanation:

3. DRUG-FREE WORKPLACE (GRANTEES OTHER THAN INDIVIDUALS)

As required by the Drug-Free Workplace Act of 1988, and implemented at 44 CFR Part 17, Subpart F, for grantees, as defined at 44 CFR part 17, Sections 17.615 and 17.623:

- (A) The applicant certifies that it will continue to provide a drug-free workplace by:
 - (a) Publishing a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the grantee's workplace and specifying the actions that will be taken against employees for violation of such prohibition;
 - (b) Establishing an on-going drug free awareness program to inform employees about:
 - (1) The dangers of drug abuse in the workplace:
 - (2) The grantee's policy of maintaining a drug-free workplace;
 - (3) Any available drug counseling, rehabilitation and employee assistance programs; and
 - (4) The penalties that may be imposed upon employees for drug abuse

violations occurring in the workplace;

- (c) Making it a requirement that each employee to be engaged in the performance of the grant to be given a copy of the statement required by paragraph (a);
- (d) Notifying the employee in the statement required by paragraph (a) that, as a condition of employment under the grant, the employee will:
 - Abide by the terms of the statement; and
 Notify the employee in writing of his or her conviction for a violation of a criminal drug statute occurring in the workplace no later than five calendar days after such conviction.
- (e) Notifying the agency, in writing within 10 calendar days after receiving notice under subparagraph (d)(2) from an employee or otherwise receiving actual notice of such conviction. Employers of convicted employees must provide notice, including position title, to the applicable FEMA awarding office, i.e. regional office or FEMA office. (f) Taking one of the following actions against such an employee, within 30 calendar days of receiving notice under subparagraph (d)(2), with respect to any employee who is so convicted:
- (1) Taking appropriate personnel action against such an employee, up to and including termination, consistent with the requirements of the Rehabilitation Act of 1973, as amended; or
- (2) Require such employee to participate satisfactorily in a drug abuse assistance or rehabilitation program approved for such purposes by a Federal, State, or local health, law enforcement or other appropriate agency.
- (g) Making a good effort to continue to maintain a drug free workplace through implementation of paragraphs (a), (b), (c), (d), (e), and (f).
- (B) The grantee may insert in the space provided below the site(s) for the performance of work done in connection with the specific grant:

Place of Performance			
Street	City	State	ZIP
333 63 rd Street	Flood	BL	33333

Section 17.630 of the regulations provide that a grantee that is a State may elect to make one certification in each Federal fiscal year. A copy of which should be included with each application for FEMA funding. States and State agencies may elect to use a Statewide certification.

I, Frank Sinatra, hereby sign this form as of 11-29-2009.

APPLICATION FOR
FEDERAL ASSISTANCE
(SF 424)

1.TYPE OF SUBMISSION
Construction

3. DATE RECEIVED BY
STATE
01-29-2009

4. DATE RECEIVED BY
FEDERAL AGENCY

Applicant Identifier

State Application Identifier

Federal Identifier

Legal Name

Flood County on behalf of Flood Children's Hospital

Address

333 63rd Street, Flood, BL 33333

6. EMPLOYER IDENTIFICATION NUMBER (EIN)

05-0000000

8. TYPE OF APPLICATION

Project Application

10. CATALOG OF FEDERAL DOMESTIC ASSISTANCE

NUMBER

99.071

CFDA TITLE PDM Competitive

12. AREAS AFFECTED BY PROJECT (cities, counties, states, etc.)

FLOOD COUNTY

13. PROPOSED PROJECT:

Start Date:

End Date:

Organizational Unit

Office of Emergency Management, Flood County

Name and telephone number of the person to be contacted on

matters involving this application Frank Sinatra, 333-333-3333

7. TYPE OF APPLICANT

Private Non-Profit

9. NAME OF FEDERAL AGENCY

Federal Emergency Management Agency

11. DESCRIPTIVE TITLE OF APPLICANT'S PROJECT

Flood County FCH Mechanical Room

14. CONGRESSIONAL DISTRICTS OF:

6.a. DUNS NUMBER

444111333

a. Applicant BL80

b. Project BL80

16. IS APPLICATION SUBJECT TO REVIEW BY STATE 15. ESTIMATED FUNDING **EXECUTIVE ORDER 12372 PROCESS?**

\$ 603,023.36 YES. 19-DEC-2008 a. Federal

b. Applicant \$ 0.00

\$ 0.00 c. State

\$ 201,007.80 17. IS THE APPLICANT DELINQUENT ON ANY FEDERAL DEBT? d. Local

No

e. Other \$ 0.00

f. Program Income \$ 0.00

g. TOTAL \$804,031.16

18. TO THE BEST OF MY KNOWLEDGE AND BELIEF, ALL DATA IN THIS APPLICATION ARE TRUE AND CORRECT, THE DOCUMENT HAS BEEN DULY AUTHORIZED BY GOVERNING BODY OF THE APPLICANT AND THE APPLICANT WILL COMPLY WITH THE ATTACHED ASSURANCES IF THE ASSISTANCE IS AWARDED.

a. Name of Authorized Representative

b.Title

c. Telephone Number 333-333-3333

d.Signature of Authorized Representative

Robert Redford

e Date Signed

Robert Redford 01-20-2009

Comments for FEMA

Project supports the State of Bliss mitigation efforts and is forwarded to FEMA for further funding consideration.